

CLIMATOLOGICAL DATA

WEST INDIES AND CARIBBEAN SECTION

[In cooperation with the governments of the islands of the West Indies and of the adjacent coasts of Central and South America]

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GENERAL SUMMARY

Rainfall was deficient generally over the West Indies and Caribbean Section during January, 1945, averaging about 31% below normal. Only two divisions reported amounts in excess of normal—Netherlands Guiana and Colombia, with excesses of 35% and 52% respectively. Deficiencies ranging from over 50% to over 80% were noted in the Bahamas, Turks and Caicos Islands, Cuba, the Dominican Republic, the Windward Islands, Honduras, Nicaragua, and British Honduras. Negative departures of 25% to 50% were observed in Haiti, Puerto Rico, the Virgin Islands, the Leeward Islands, Martinique, the southern Netherlands West Indies, Venezuela, Panamá and the Canal Zone, Guatemala, and Yucatán.

Twenty-four hourly rainfall in excess of 2.00 inches was observed at 30 stations located in Haiti, Dominican Republic, Puerto Rico, Martinique, Netherlands Guiana, Colombia, and Costa Rica. Buenavista (La Vuelta), Colombia, reported a fall of 6.61 inches on the 17-18th.

For the Section as a whole there were, on the average, 8 days with appreciable rainfall. However, in Turks and Caicos Islands, Cuba, Haiti, and Yucatán, only 3 days with rain were observed, while in Netherlands Guiana there were 21.

Temperatures averaged 75.3° , or 0.2° below normal, for the Section as a whole with monthly means ranging from 61.0° at Garzas, Puerto Rico, to 80.6° at Andagoya, Colombia. Below normal temperatures were most marked in Puerto Rico, St. Thomas, and the Leeward Islands. The highest temperature observed during the month was 95° at Juana Díaz, Puerto Rico, and the lowest was 46° at Cayey, Puerto Rico. The mean daily range for the Section was 15.2° , with the least, 7.8° , occurring at Cristóbal, Canal Zone, and the greatest 31.2° at Juncos, Puerto Rico.

No weather conditions of unusual interest were noted during the month, although observers in the Bahamas reported the 1st, 7th, 8th, 12th, and 19th as abnormally windy days, and the same conditions were observed at Barbuda on the 12th-13th. At San Juan, Puerto Rico, the average hourly velocity of 10.1 was considerably below the normal for the month; on the 1st, 3d, 7th, 12th, and 30th, the hourly velocity exceeded 20 miles per hour at some time during the day.

WATER TEMPERATURES: PANAMA AND CANAL ZONE
(In degrees Fahrenheit)

	Mean	Departure
Balboa (sea), automatic record.....	76.5	-2.2
Cristóbal (sea), automatic record.....	80.2	+0.2
Madden Dam (lake), automatic record	82.1	....

EVAPORATION—(In inches)

San Juan, P. R.	6.847
Mayagüez, P. R. ....	....
Christiansted, St. Croix, V. I. ....	....
Kingston, Jamaica.....	6.871
Madden Dam (lake), C. Z.	4.959
Balboa Heights, C. Z. ....	....
Gatún Lake, C. Z. ....	....

RAINFALL SUMMARY FOR JANUARY 1945

AREAS (Arranged Geographically)	Number of stations	Average rain- fall (inches)	Departure from normal	Number of days with rain
Bahamas	4	0.34	-1.07	5
Turks & Caicos Islands	4	0.32	-1.51	3
Cuba	15	0.69	-0.92	3
Jamaica.....	87	0.84	....	3
Haiti.....	25	1.84	-0.92	6
Dominican Republic.....	....	....	....	....
Puerto Rico	68	2.77	-0.91	9
Coastal Stations.....	25	1.90	-0.94	8
Coastal Plains and Foothills.....	17	2.00	-1.85	8
Interior	26	4.40	+0.05	11
Virgin Islands.....	20	1.71	-1.88	7
St. Thomas.....	4	2.65	-0.47	9
St. John.....	1	1.28	-1.27	9
St. Croix.....	14	0.99	-2.04	4
Tortola (B. W. I.).....	1	2.02	-1.73	7
Netherlands West Indies (Northern Caribbean)	2	2.70	-0.03	11
St. Martin.....	1	1.88	-0.68	14
Saba	1	3.56	+0.92	8
St. Eustatius	1	....	....	....
Leeward Islands	9	2.54	-1.85	12
Barbuda	1	1.80	-0.24	9
St. Kitts	3	3.58	-1.01	15
Nevis	1	3.08	-0.56	14
Montserrat	1	2.68	-0.96	12
Dominica	8	1.66	-3.98	10
Guadeloupe	19	1.68	-1.74	8
Martinique	9	4.95	-1.70	13
Windward Islands	50	1.86	-2.90	12
St. Lucia	24	2.91	-2.77	14
St. Vincent	2	1.95	-8.69	12
Barbados	28	0.81	-2.25	7
Grenada	1	1.75	-2.91	16
Tobago .....	..	....	....	....
Trinidad .....	..	....	....	....
Netherlands West Indies (Southern Caribbean)	10	1.25	-1.20	6
Bonaire	8	0.85	-1.51	4
Curacao	6	1.28	-1.74	6
Aruba	1	1.61	-0.86	8
British Guiana	18†	5.60	†-8.02	†14
Netherlands Guiana (Suriname)	14	9.91	+2.58	21
Venezuela	12	0.71	-0.88	4
Colombia	2	87.68	+12.90	19
Panama and Canal Zone	16	1.53	-0.64	11
Central America	9	3.98	-4.05	12
Costa Rica	8	9.18	-0.56	14
Nicaragua	2	1.83	-8.91	15
Honduras (Tela)	1	3.22	-7.62	10
British Honduras (Belize)	1	0.84	-5.94	6
Guatemala	2	4.88	-2.82	14
Yucatán (México)	5	0.70	-0.89	8
* Entire Section	809	2.27	-1.03	8

* Colombia and Dominican Republic not included in Section averages.

Daily Precipitation for January 1945

See last page for explanation of reference marks.

Daily Precipitation for January 1945

STATIONS	Day of month																													TOTAL			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
Haiti—continued																																	
Ennery.....																																	0.00
Gonaives.....																																3.50	
Grande-Rivière.....																																0.00	
Grande-Saline.....																																0.00	
Gros-Morne.....																																0.00	
Hinche (Travaux Publics).....																																0.00	
La-Chapelle.....																																0.00	
Maissade.....																																0.00	
Petit-Riviére.....																																0.19	
Pont-Sondé.....																																0.04	
Saint-Marc (Séminaire).....																																0.19	
Saint-Michel (Séminaire).....																																0.04	
Terre-Neuve.....																																0.00	
Verrlettes.....																																0.00	
Nord-Ouest: Jean-Rabel.....																																0.35	
Môle-St.-Nicholas.....	.12	.04	.04	.16	.08	.35																									0.66		
Port-de-Paix (Séminaire).....																																2.88	
Nord: Cap-Haïtien (Séminaire).....																																0.00	
Cercle-la-Source.....																																0.96	
Limbé.....																																2.39	
Ouanaminthe.....																																0.36	
Pilate.....																																0.71	
Plaisance.....																																1.77	
Saint-Raphael.....																																0.00	
Republique Dominicana (Santo Domingo)																																0.10	
Barahona: Barahona.....																																0.65	
Azua: Azúa.....																																1.49	
San José de Ocoa.....																																0.00	
San Juan.....																																0.00	
Santiago: San José de las Matas.....																																0.00	
Santiago: Santiago.....																																0.00	
Puerto Plata.....																																8.26	
Espinaliat: Moca.....																																0.97	
Salcedo.....																																1.19	
La Vega: Constanza.....																																4.51	
Jarabacoa.....																																4.47	
Las Cabullas.....																																2.00	
La Vega.....																																4.00	
Duarte: La Ceiba.....																																4.71	
La Gina.....																																1.06	
Macoris: San Francisco de.....																																1.10	
Fimentel.....																																2.49	
Villa Rivas.....																																3.93	
Trujillo: Ramí.....																																0.44	
Ingenio Caei (Italia).....																																0.60	
Represa Isla.....																																2.21	
Santo Domingo District:																																0.94	
Ciudad Trujillo (U. S. W. B.).....																																3.15	
San Isidro (Batey).....																																2.69	
Samaná: Samaná.....																																3.50	
Sánchez.....																																0.00	
Macoris: Central Consuelo.....																																0.00	
Central Porvenir (Batey).....																																0.00	
Cumayaya.....																																0.00	
El Soco.....																																0.00	
Esperanza.....																																0.00	
Gran Peñón.....																																0.00	
Jacuval.....																																0.00	
Laguna Prieta (Kelly).....																																0.90	
Los Arados.....																																0.00	
Macoris: San Pedro de.....																																0.00	
Olivari.....																																0.00	
Pico Blanco.....																																0.00	
Quisqueya.....																																0.00	
Regajo.....																																0.00	
Selbo: Bermejo.....																																	

Daily Precipitation for January 1945

See last page for explanation of reference marks.

Daily Precipitation for January 1945

See last page for explanation of reference marks.

Aragua House (L'Anse Noire)...
Evasdale Estate (Sangre Grande)

Daily Precipitation for January 1945

STATIONS	Day of month																													TOTAL				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>Trinidad—continued</i>																																		
Exchange Estate (Couva).....																																		
Forres Park Estate (Claxton Bay).....																																		
Frederick Estate (Caroni).....																																		
Imperial College of Tropical Agric.....																																		
Irois Government School (Chatham).....																																		
Mayaro (Constabulary Station).....																																		
Mon Plaisir Estate (Grande Riviere).....																																		
Moruga (Constabulary Station).....																																		
Point Fortin Estate (Constab. Sta.).....																																		
River Estate (Diego Martin).....																																		
St. Clair Experiment Station.....																																		
Ste. Madeleine (San Fernando).....																																		
Santa Marta Estate (Tananarive).....																																		
Siparia (Constabulary Station).....																																		
Warden's Office (Arima).....																																		
Waterloo Estate (Carapichaima).....																																		
Williamsville Estate (Princes Town).....																																		
<i>Tobago, B. W. I.</i>																																		
Botanic Station.....																																		
Government Farm.....																																		
Hermitage Estate.....																																		
King's Bay.....																																		
<i>Martinique, F. W. I.</i>																																		
Acajou (Lamentin).....	.81																																	
Basse-Pointe (Usine).....																																		
Case-Pilote (Grande-Fonds).....	.89	.08	.18	.44	.15	.21	.09																											
Fort-de-France (Balata).....	.15	.91	.07	.11	.88	.02	.07	.47	T.	.08	.80	.44	1.66	.24																				
Fort-de-France (Station-Principale).....																																		
Marigot (Usine-de-Lorrain).....																																		
Petit-Bourg (Usine).....																																		
Saint-Joseph (Hotel-des-Plaisirs).....	1.22																																	
Saint-Joseph (Rabuchon).....	.98	.08	.12	.16	.20	.08	.20	.35	.16	.08	.20	.04	.04																					
Sainte-Marie (Fourniols).....																																		
Vauclin (Usine).....																																		
<i>Guadeloupe, F. W. I.</i>																																		
Lamentin: Blachon.....																																		
Chantilly.....																																		
Petit-Bourg: Bellevue-Bélair.....																																		
Lézarde.....																																		
Pointe-à-Pitre: Lycée-Carnot.....																																		
Port-Louis: Beauport.....																																		
Petit-Canal: Duval.....																																		
Grande-Maison.....																																		
Anse-Bertrand: Sans-Fenêtres.....																																		
Capesterre: Marquisat.....																																		
Bois-Riant.....																																		
Basse-Terre: Saint-Claude.....																																		
Abymes: La Malmaison.....																																		
Boivinvière.....																																		
Morne-à-l'Eau: Belle-Esperance.....																																		
Clugny.....																																		
Bale-Mahault: Belle-Cour.....																																		
Birmingham.....																																		
Vounche.....																																		
Sainte-Rose: Bonne-Mère.....																																		
<i>Netherlands West Indies (Southern Caribbean)</i>																																		
Aruba: Oranjestad.....	.26	.24	.03	.11	.12																													
Bonaire: Bolivia.....																																		
Kralendijk.....		.21	.24																															
Rincón.....		.14	.45	.14	.18	.06																												

Daily Precipitation for January 1945

See last page for explanation of reference marks.

Temperature Data for January 1945

STATIONS	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit					STATIONS	Elevation, feet	Length of record, years	Temperature, in degrees Fahrenheit														
			Mean	Departure from the normal	Highest	Lowest	Mean daily range				Mean	Departure from the normal	Highest	Lowest	Mean daily range										
<i>Turks Islands</i>																									
Grand Turk (U. S. W. B.)	11	42	75.4	+0.2	84	61	9.9	<i>Puerto Rico—continued</i>																	
<i>Cuba</i>																									
Central Ceballos, Camaguey	151	6	.....	.....	.....	.....	.....	Guineo Reservoir	3,000	17	64.8	.....	78	52	16.4				
Central Elia, Camaguey	7	7	71.4	.....	86	66	19.4	Humacao	100	39	70.7	-8.1	88	57	19.2									
Central Francisco, Camaguey	9	7	.....	.....	.....	.....	.....	Isabela (near)	275	31	72.0	-2.7	*88	60	16.9					
Central Soledad, Santa Clara	60	7	.....	.....	.....	.....	.....	Juana Diaz	200	43	75.3	-0.8	*96	49	20.4					
Cienfuegos, Santa Clara	98	1	.....	.....	.....	.....	.....	Juncos	250	80	71.9	-1.6	*90	58	31.2					
Gibara, Oriente	83	17	78.9	.....	84	61	10.8	Lares	1,200	40	71.2	-0.8	89	54	25.7									
Granja Escuela, Pinar del Rio	7	67.6	.....	.....	81	48	15.9	Mameyes (Utuado)	1,000	7	71.0	.....	85	55	21.1							
Guane, Pinar del Rio	7	71.0	.....	.....	90	50	19.6	Manati	250	44	73.3	+0.1	87	60	18.4								
Holguin, Oriente	7	75.7	.....	.....	87	64	12.6	Mayaguez	80	45	73.6	-0.9	89	57	21.8								
La Habana, Observatorio Nacional	164	41	70.7	-0.2	85	58	14.0	Patillas Dam	237	7	74.3	.....	87	59	20.4									
<i>Jamaica</i>																									
Castleton Gardens	496	1	.....	.....	.....	.....	.....	Ponce	40	89	75.6	+0.2	93	61	22.9					
Hill Gardens (Blue Mountain)	4,900	7	.....	.....	.....	.....	.....	Quebradillas	372	4	73.0	.....	87	57	22.0				
Hope Gardens	668	7	.....	.....	.....	.....	.....	Rio Piedras	75	82	.....	.....	.....	.....	.....					
Kingston	24	44	.....	.....	.....	.....	.....	Roosevelt Roads (Ensenada Honda)	65	2	76.6	.....	86	66	12.2				
Montego Bay	83	7	.....	.....	.....	.....	.....	San German	880	42	73.2	-1.0	89	56	26.4					
Morant Point Light House	8	7	.....	.....	.....	.....	.....	San Juan (U. S. W. B.)	50	46	73.6	-1.4	80	66	9.3					
Negril Point Light House	83	7	.....	.....	.....	.....	.....	Utuado	480	24	72.2	-0.2	*98	60	81.0					
<i>Haiti</i>																									
Port-au-Prince (U. S. W. B.)	124	54	77.0	-0.7	89	65	16.4	<i>Lesser Antilles</i>																	
<i>Dominican Republic</i>																									
Ciudad Trujillo (U. S. W. B.)	69	65	74.8	-0.3	86	62	16.8	Charlotte Amalie (St. Thomas) (U. S. W. B.)	27	25	76.2	-0.9	84	67	10.0										
Puerto Plata, Puerto Plata (U. S. W. B.)	28	34	72.2	.....	84	56	16.0	Wintherberg (St. Thomas)	700	6	71.5	.....	*60	60	18.4								
<i>Puerto Rico</i>								Christiansburg (St. Croix) (U. S. W. B.)	25	49	75.8	+0.1	*88	69	18.2										
Aguirre	50	45	76.1	+0.2	91	62	19.0	Cruz Bay (St. John)	7	76.5	.....	.....	*86	64	13.2								
Arecibo	75	40	78.0	-1.1	86	61	18.5	Basseterre (St. Kitts) (U. S. W. B.)	30	21	76.8	+0.4	85	67	12.3										
Borinquen Field, U. S. Army	222	4	72.6	.....	*81	63	11.5	Pointe-à-Pitre (Guadeloupe)	16	7	.....	.....	.....	.....	.....					
Canóvanas	80	45	74.2	-0.1	87	58	20.8	Saint Claude (Guadeloupe)	1,678	7	.....	.....	.....	.....	.....					
Carite Camp	2,100	29	70.8	+1.4	86	55	21.7	Castries (St. Lucia) (U. S. W. B.)	811	84	78.8	-3.1	81	66	9.5										
Cayey	1,400	45	66.8	-2.3	*89	48	27.4	Experiment Station (St. Vincent)	1	77.8	-1.8	85	67	11.5											
Cidra	1,400	82	.....	.....	.....	.....	Roseau, Dominica	26	47	78.0	.....	89	66	15.1						
Coloso	85	46	73.4	-0.6	*89	58	24.3	Bridgetown (Barbados) (U. S. W. B.)	30	21	77.0	-0.8	87	64	14.9										
Comerio Falls	500	89	72.0	-1.3	85	58	17.9	<i>South America</i>																	
Corozal	400	42	70.2	-2.3	86	56	22.9	Andagoya (Colombia)	250	20	80.6	+0.6	.....	.....	16.2								
Dorado (near)	25	37	78.0	-0.6	81	61	13.1	<i>Central America</i>																	
Dos Bocas	450	8	74.4	.....	91	58	23.7	Balboa Heights (Canal Zone)	118	88	79.6	0.0	89	66	15.6									
Fajardo	40	44	72.6	-8.9	82	60	10.6	Belize (British Honduras) (U. S. W. B.)	17	29	74.4	+0.4	87	57	17.3										
Garzas	2,481	8	61.0	.....	69	53	9.1	Puerto Cabezas (Nicaragua) (U. S. W. B.)	1	74.6	.....	.....	*88	68	18.8							
Guayama	50	81	78.8	+1.4	*90	63	17.8	Cristobal (Canal Zone)	36	88	80.0	-0.7	87	71	7.8										
<i>Explanation of Reference Marks used in this Publication</i>																									
"", etc. Number of days missing, for example, ^b indicates two days missing.	¹ First-order Weather Bureau Station; precipitation for 24 hour period, midnight to midnight, unless otherwise indicated.																								
Comerio Falls	² Precipitation measured with recording gage.																								
Corozal	³ Received late; not included in Section means.																								
Dorado (near)	⁴ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.																								
Dos Bocas	⁵ Extremes in bold-face figures.																								
Fajardo	⁶ Amount included in following figures.																								
Garzas	⁷ Trace or 0.005 inch or less.																								
Guayama	(WB, Atlanta-5-7-46-850)																								

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Corozal ⁵ Extremes in bold-face figures. ⁶ Amount included in following figures. ⁷ Trace or 0.005 inch or less.

(WB, Atlanta-5-7-46-850)